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| **3b Python Programming** |

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| **String Methods** | **Operators** |
| **String methods** format or change the way a string looks.   |  |  | | --- | --- | | lower () | Turns all characters into lowercase | | upper () | Turns all characters into uppercase | | title () | Turns the first character in each word uppercase | | swapcase () | Changes to the opposite case | | capitalize () | Capitalises each word | | len () | Prints the length of a string | | There are two types of operators in Python:  **Arithmetic operators** – allow us to create mathematical programs  **Comparison operators** – allows us to compare data in a program. |

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| **Functions** | **Lists** |
| A **function** is a block of reusable code that is used to perform a specific task.  Instead of writing the same code repeatedly, you can create a function and ‘call’ the function.  Example: | A **list** in python contains **items** separated by **commas** within **square brackets.**  They are used to store **multiple items in one variable.**  **For example:**  **Fruit = [“apple”, “banana”, “orange”, “strawberry”]**  Each item in a list has an **index position**, which shows where it placed in the list.  **Index positions always start with 0.**  Index Positions 0 1 2 3 4  friends = [ “Tom”, “Sue”, “Danny”, “Joe”, “Mary” ] |